

ABSTRACT

A semiconductor integrated circuit device for downloading a program of an arithmetic processing unit, such as a DSP or a CPU, from the outside, wherein a rewrite program as secret information not to be leaked to third parties, which is downloaded in a semiconductor integrated circuit, is checked as to whether it is correctly downloaded or not while maintaining the confidentiality of the rewrite program. The semiconductor integrated circuit device is provided with a circuit for verifying the contents of the downloaded rewrite program, and/or a program for verifying the contents of the downloaded rewrite program.